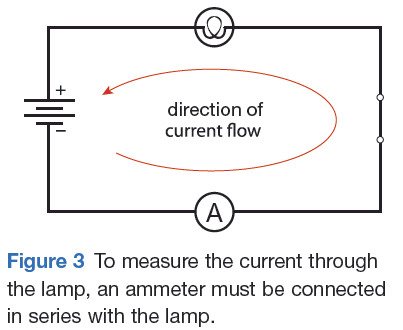
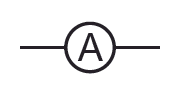
Measurements in Electric Circuits

**Electric Current (I):**

Electric current is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ using an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. An ammeter is connected in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with a load in a circuit so that the electrons can flow through the ammeter.



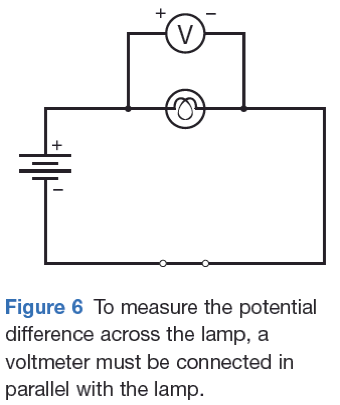
Circuit Diagram Symbol:



**Potential Difference or Voltage (V):**

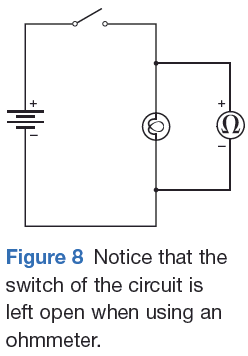
Potential difference is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ using a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. A voltmeter is connected in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with an energy source or load.

Circuit Diagram Symbol:



**Electrical Resistance (R):**

Electrical resistance is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_ using an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. An ohmmeter must be connected in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to each end in a load in a circuit and the switch of the circuit is left open.



Circuit Diagram Symbol:

